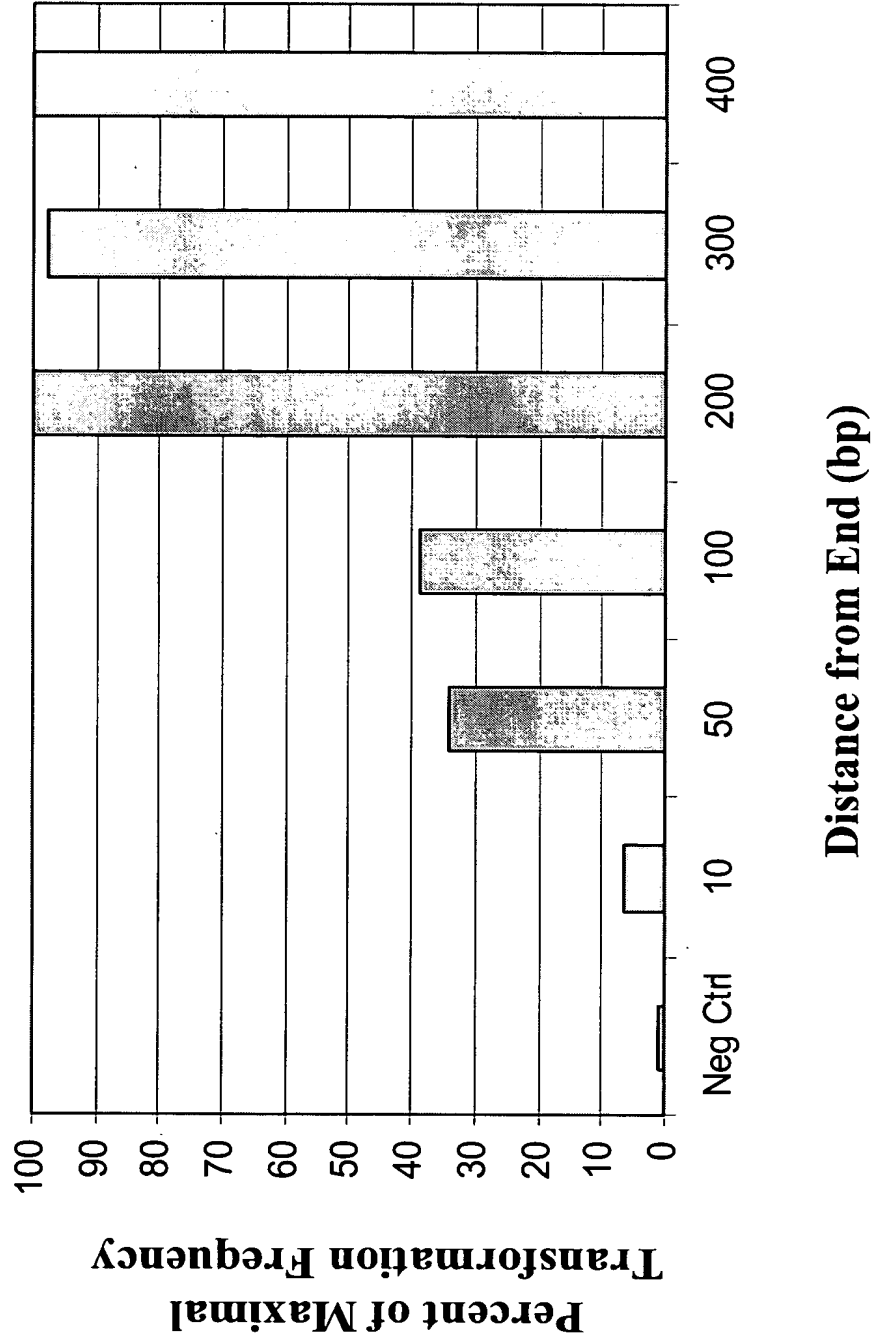


**Figure 1. Relationship between Transformation Frequency and Distance of *H. influenzae* Ciprofloxacin Resistance *gyrA* Mutation from End of Fragment**



**Figure 2. Relationship between Transformation Frequency and Length of Restriction Fragments using Abbott A-583 Resistant *fadL* *H. influenzae* strain FLUSKO.**

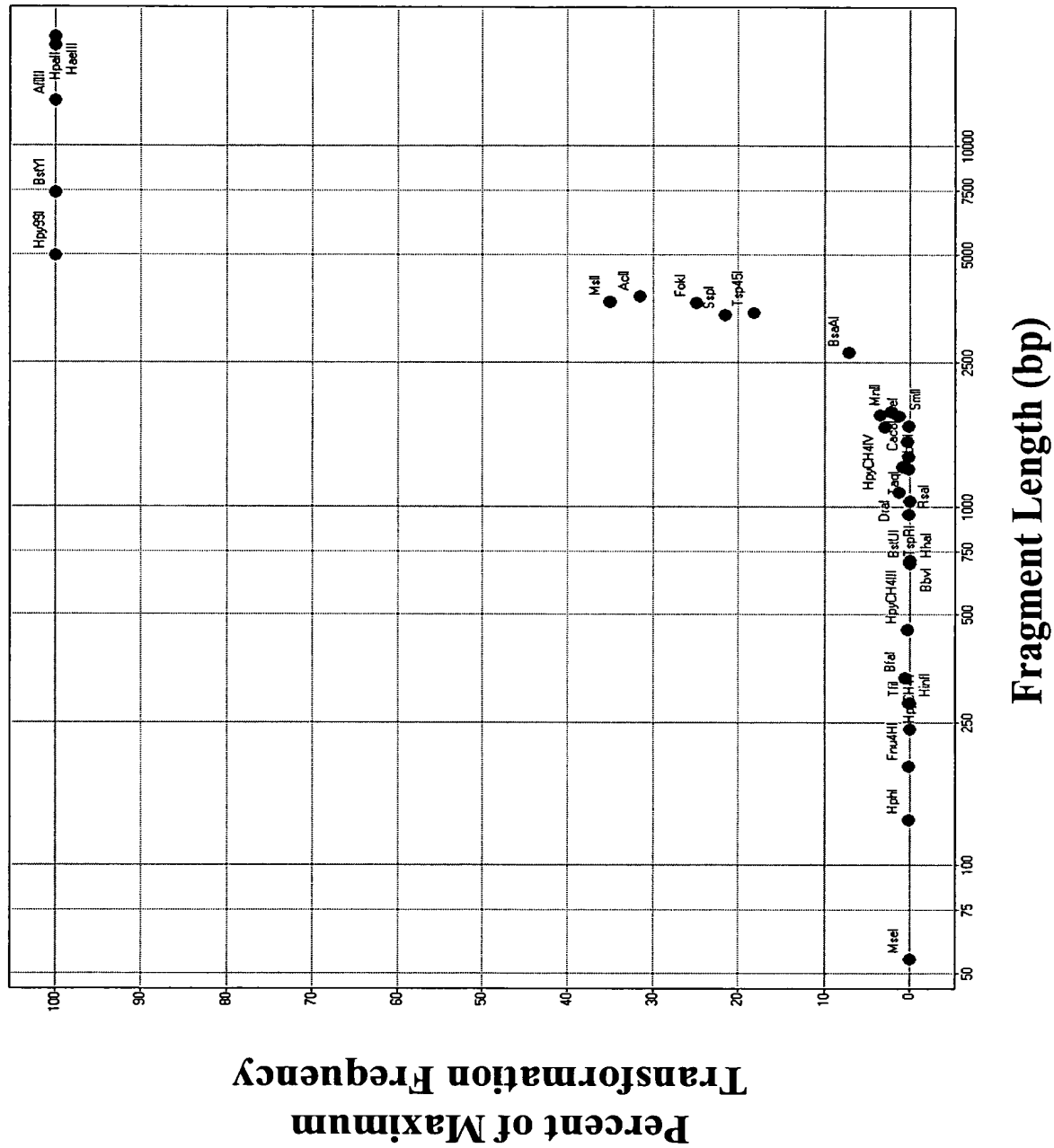
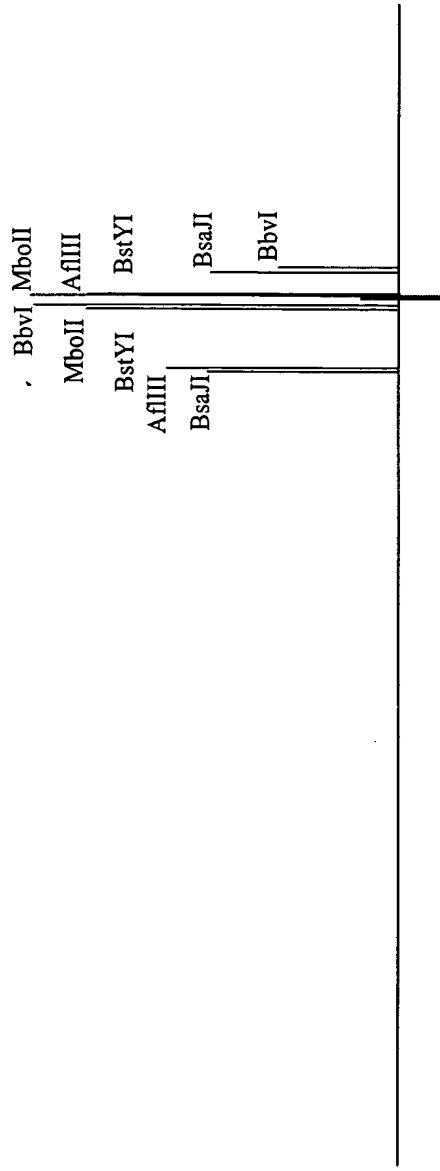
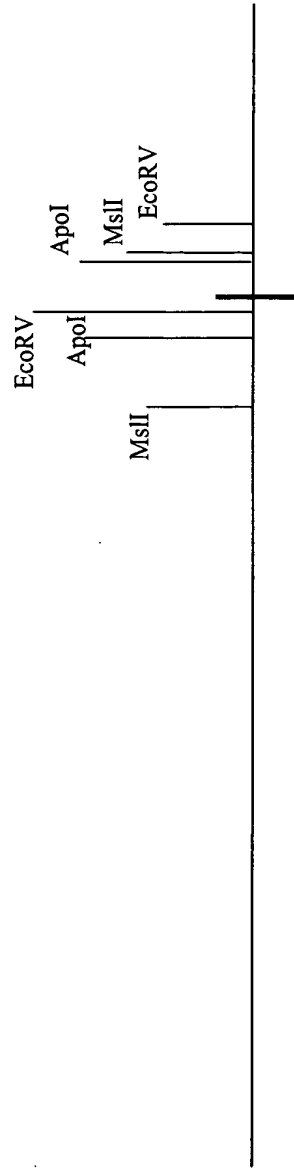


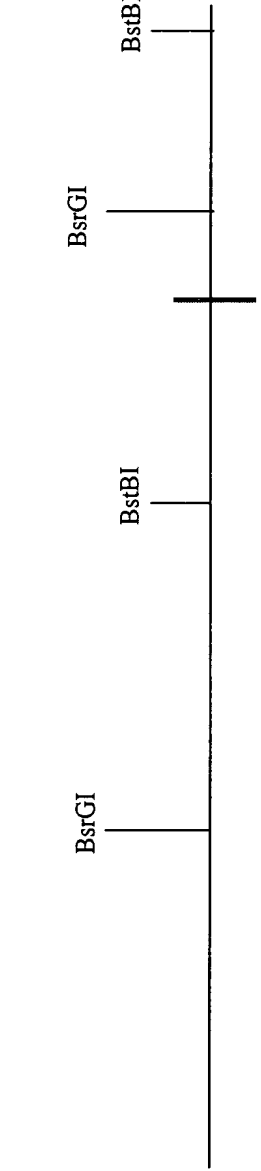
Figure 3. *B. subtilis rpoB* Rifampacin Resistance Mutation



Full Effect

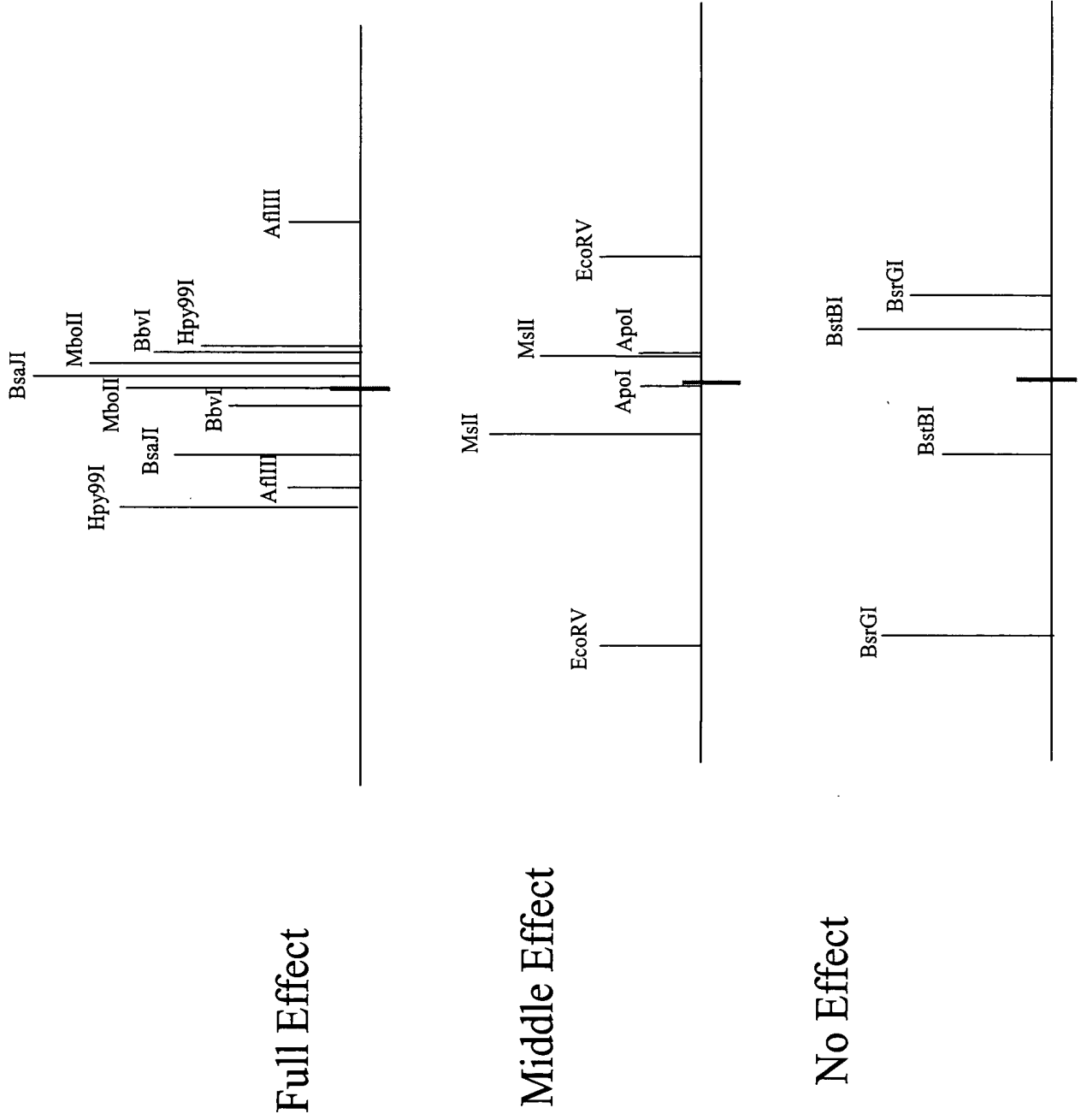


Middle Effect

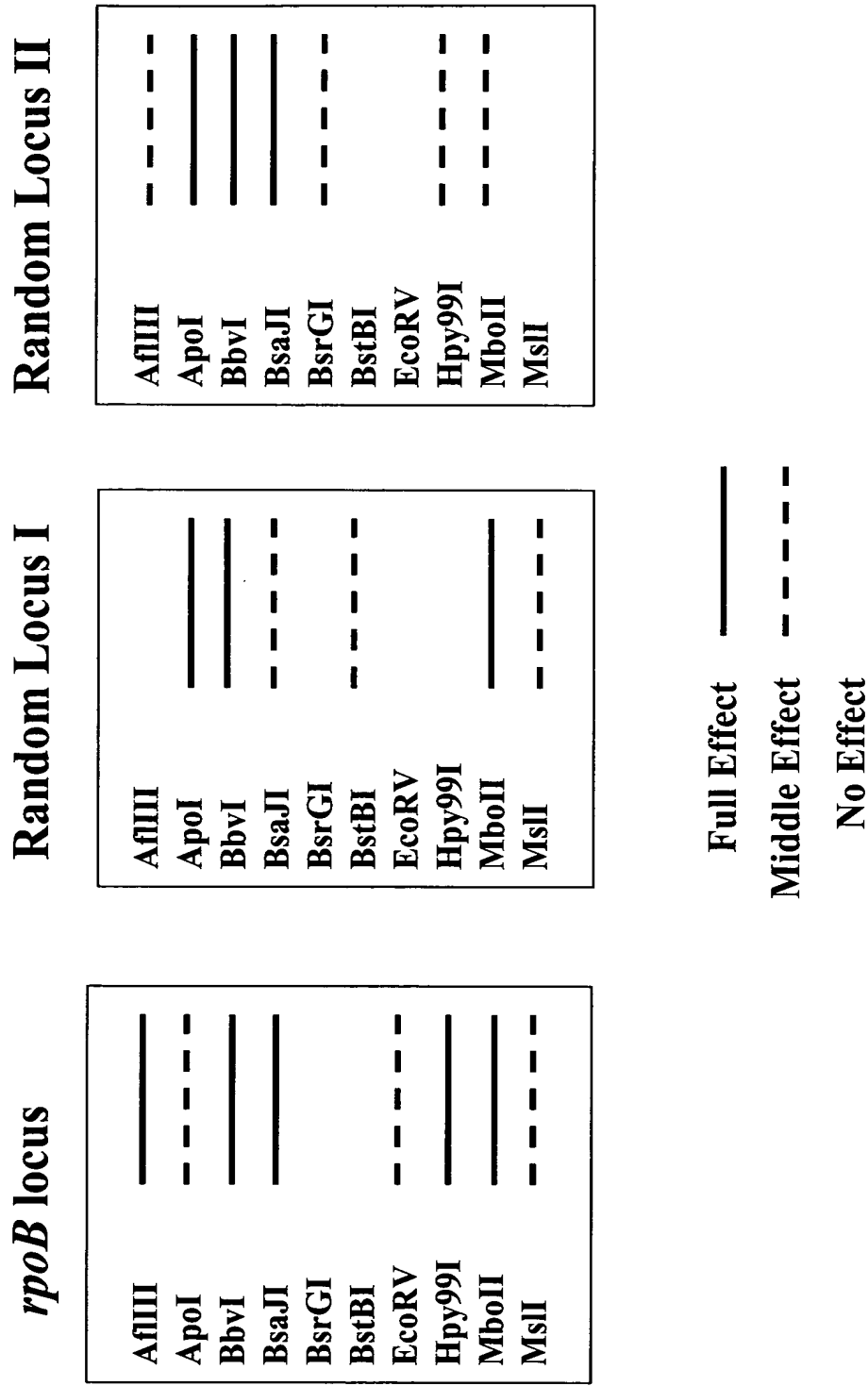


No Effect

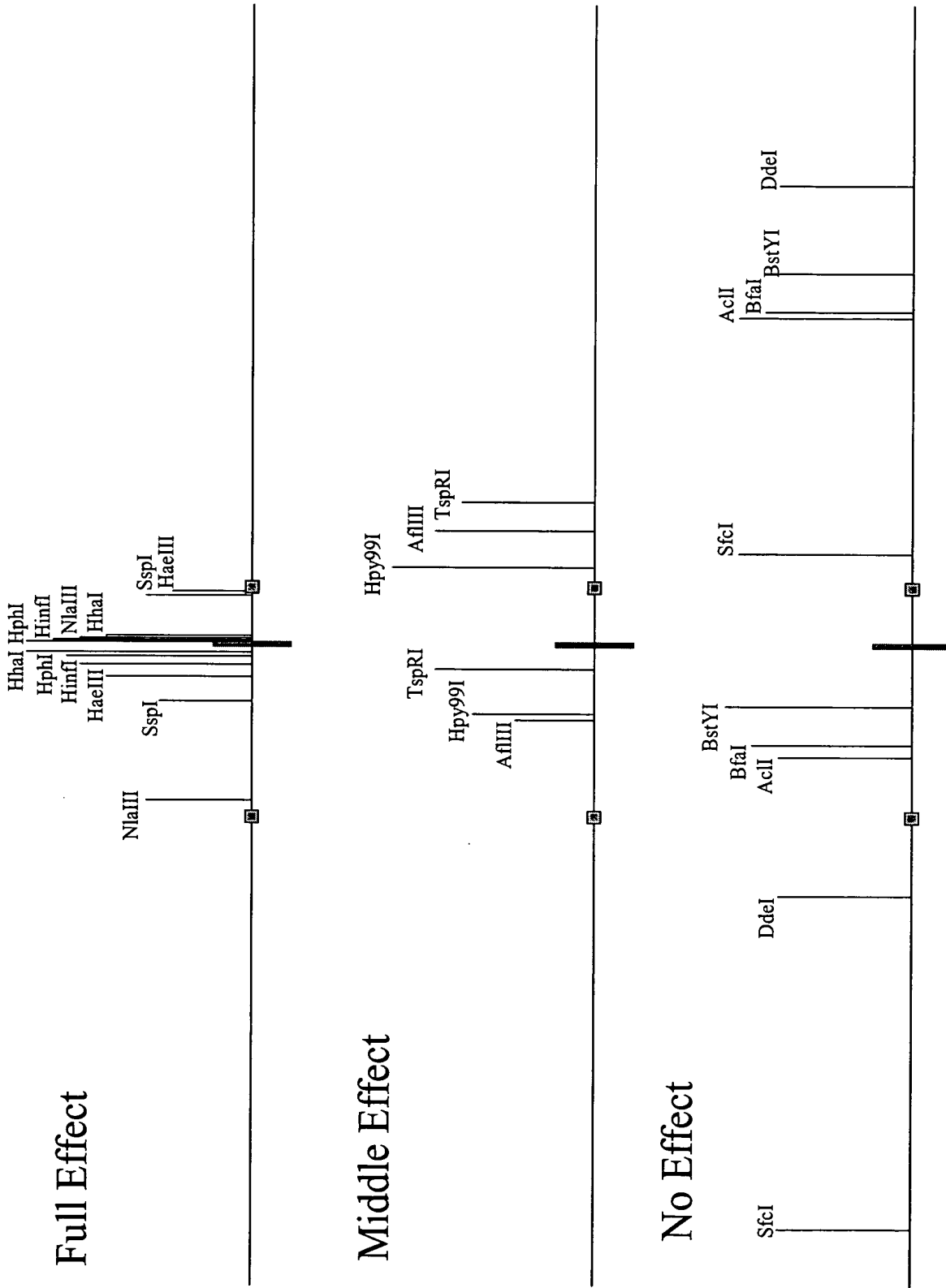
**Figure 4. *B. subtilis* Random Site Location Plot with Rifampacin Resistance Data**



**Figure 5. *B. subtilis* Rifampacin Resistance signature at *rpoB* and random loci**

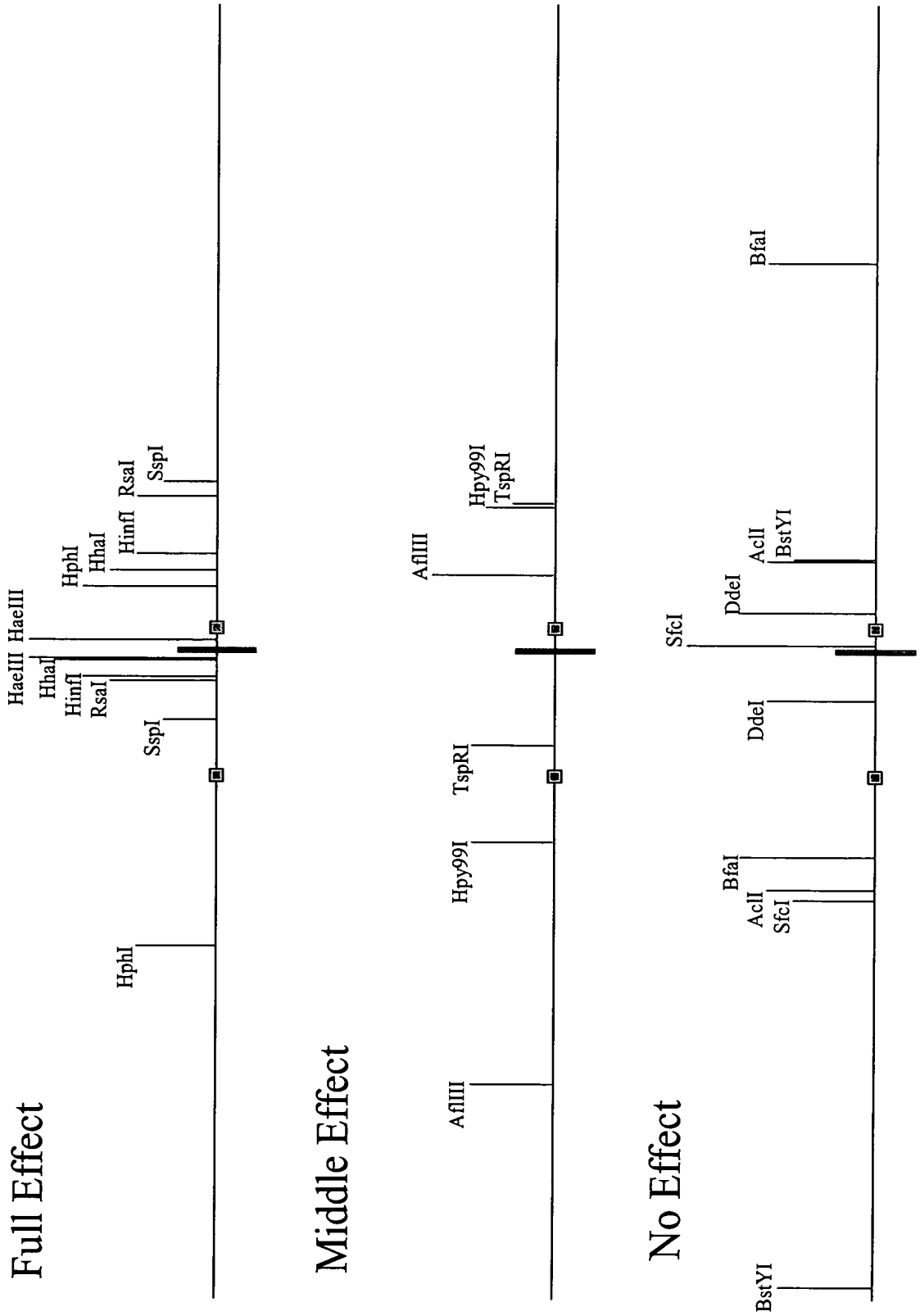


**Figure 6. *H. influenzae gyrA* Ciprofloxacin Resistance Mutation**

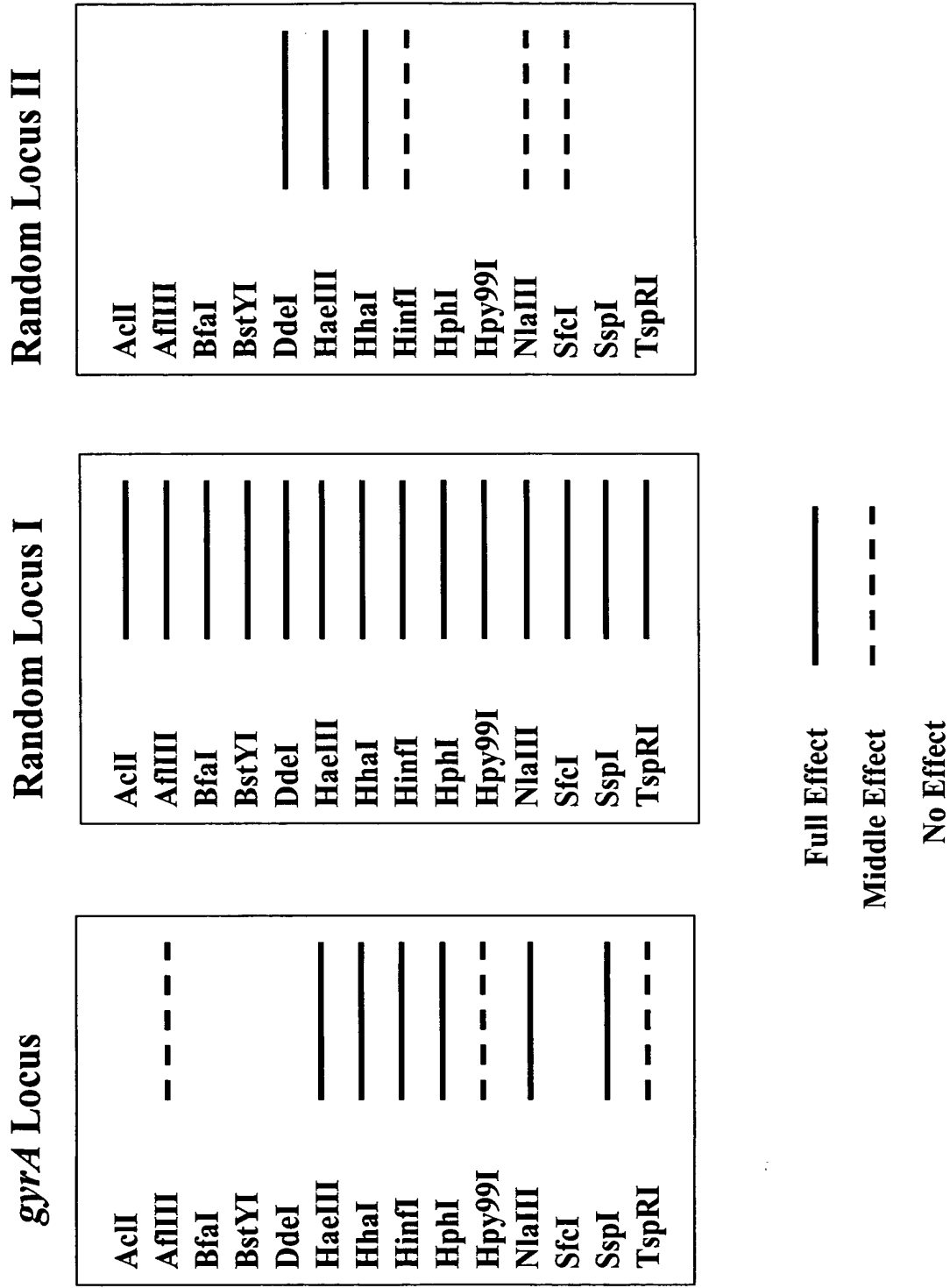


**Figure 7. *H. influenzae* Random Location Plot with**

**Ciprofloxacin Resistance Data**



**Figure 8. *H. influenzae* Ciprofloxacin Transformation signature at *gyrA* and random loci**





### Transformation Frequency

(Total number of transformants per reaction, background corrected)

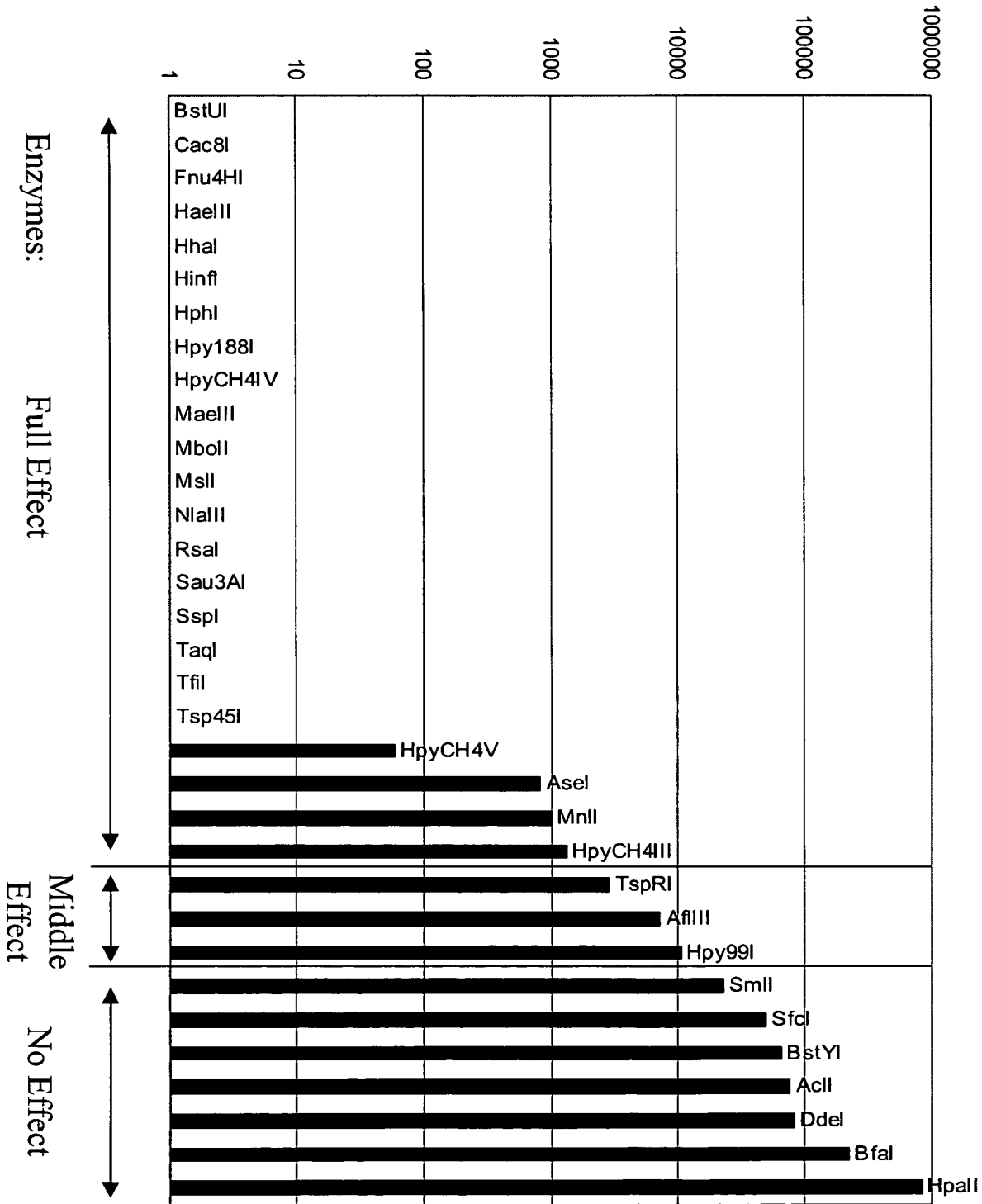
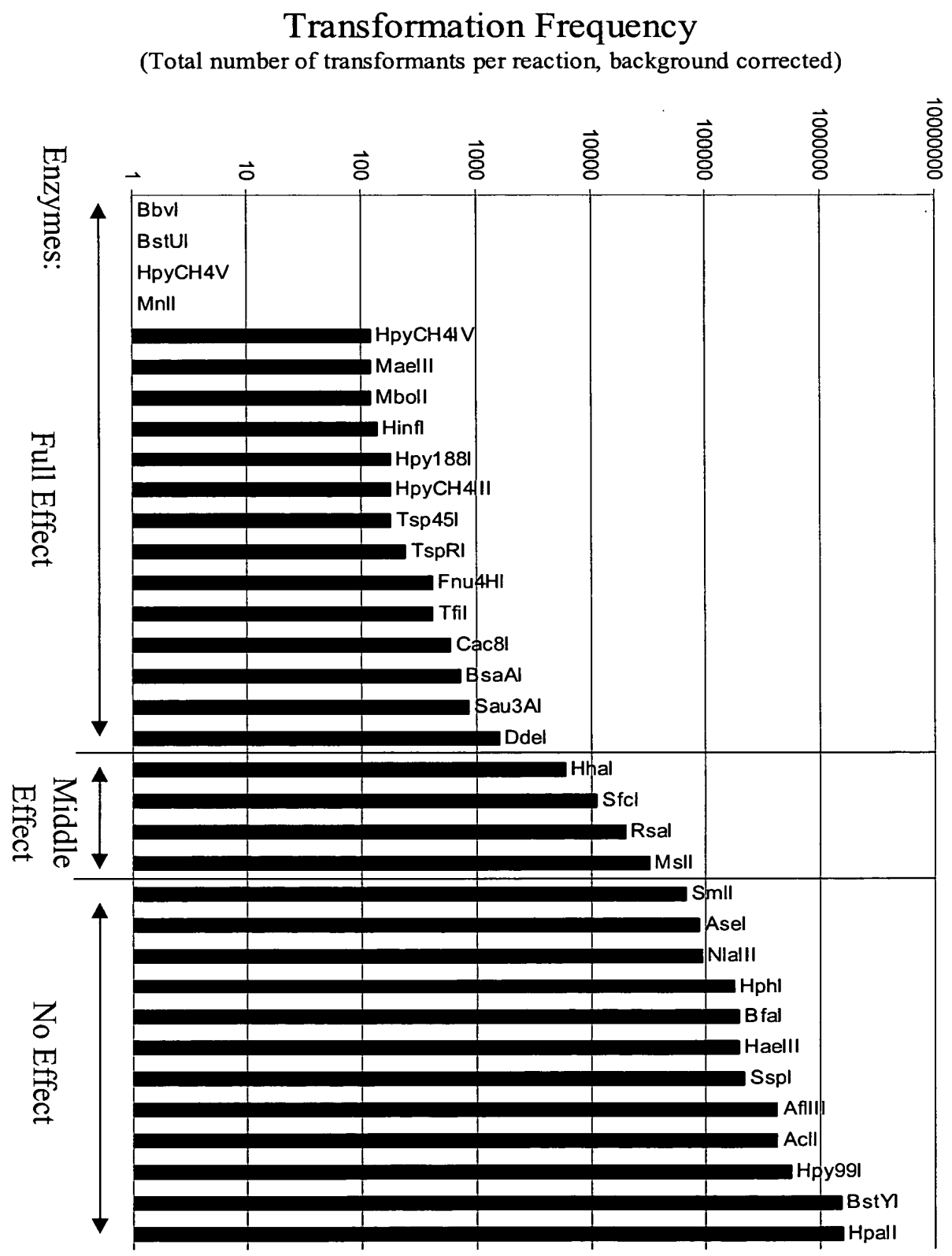
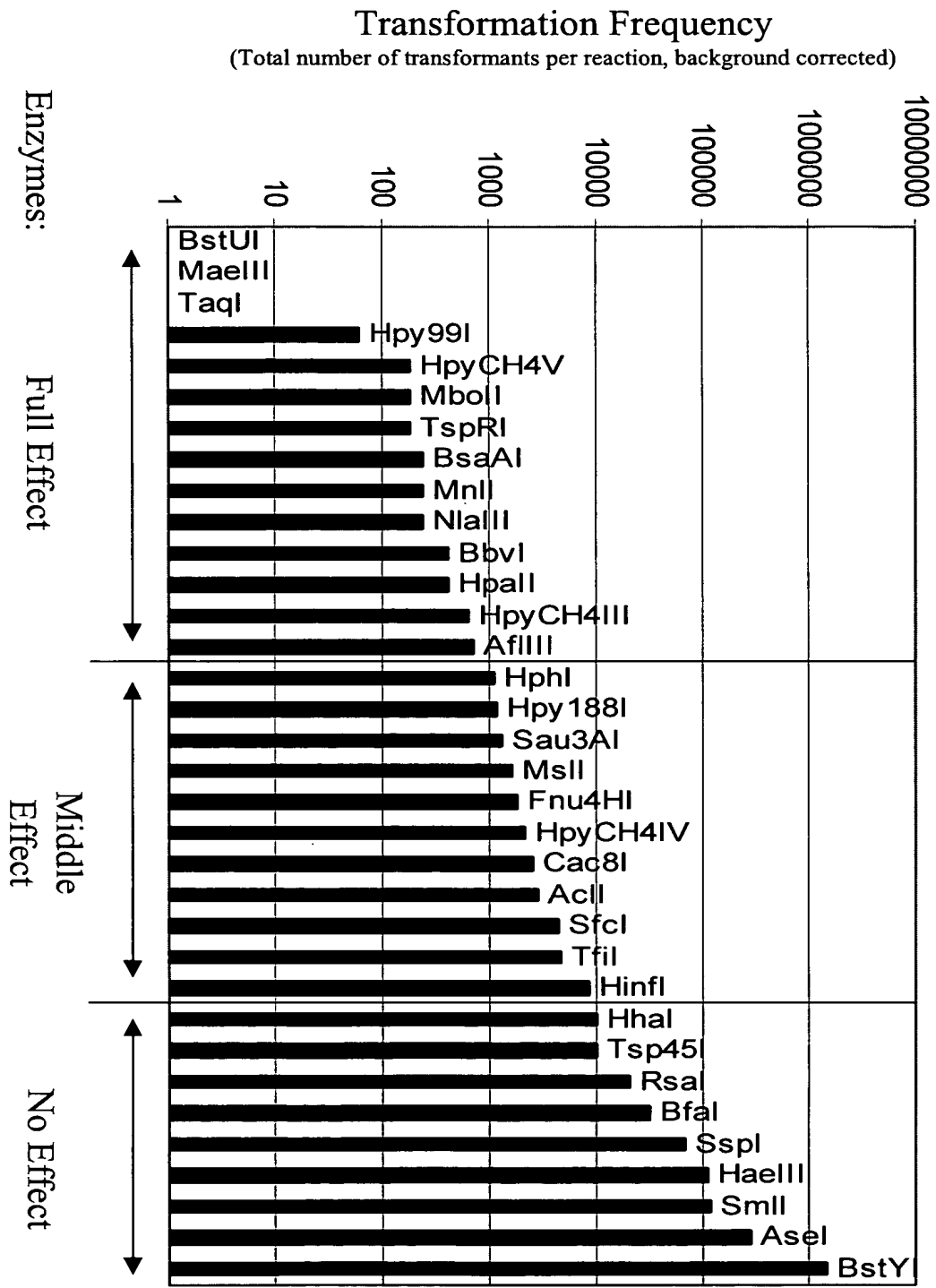


Figure 9. Ciprofloxacin Resistance, *gyrA*

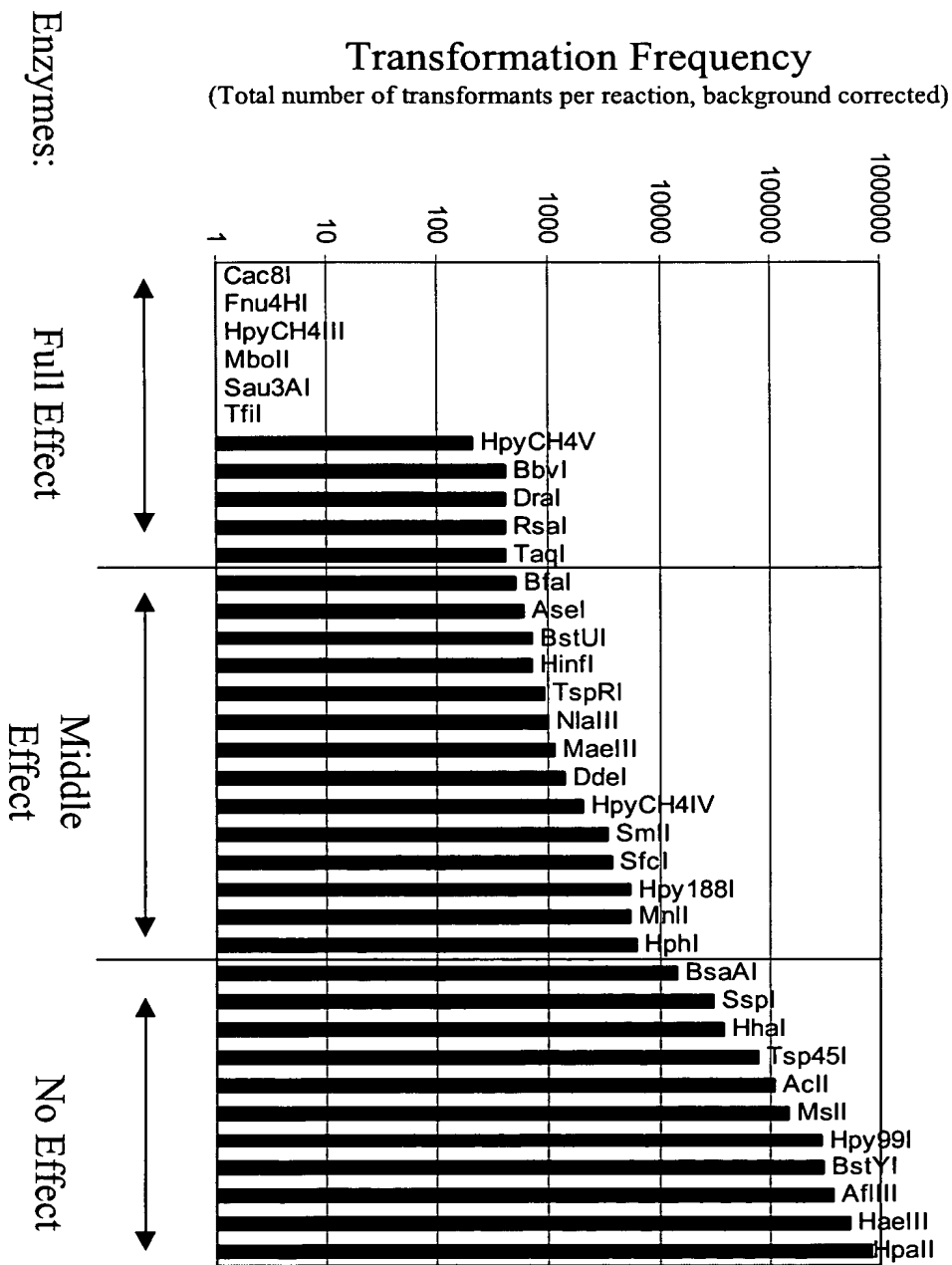
**Figure 10. Novobiocin Resistance, *gyrB***



**Figure 11. Spectinomycin Resistance, *rps5***



**Figure 12. A-583 Resistance, *fadL***



# Transformation Frequency

(Total number of transformants per reaction, background corrected)

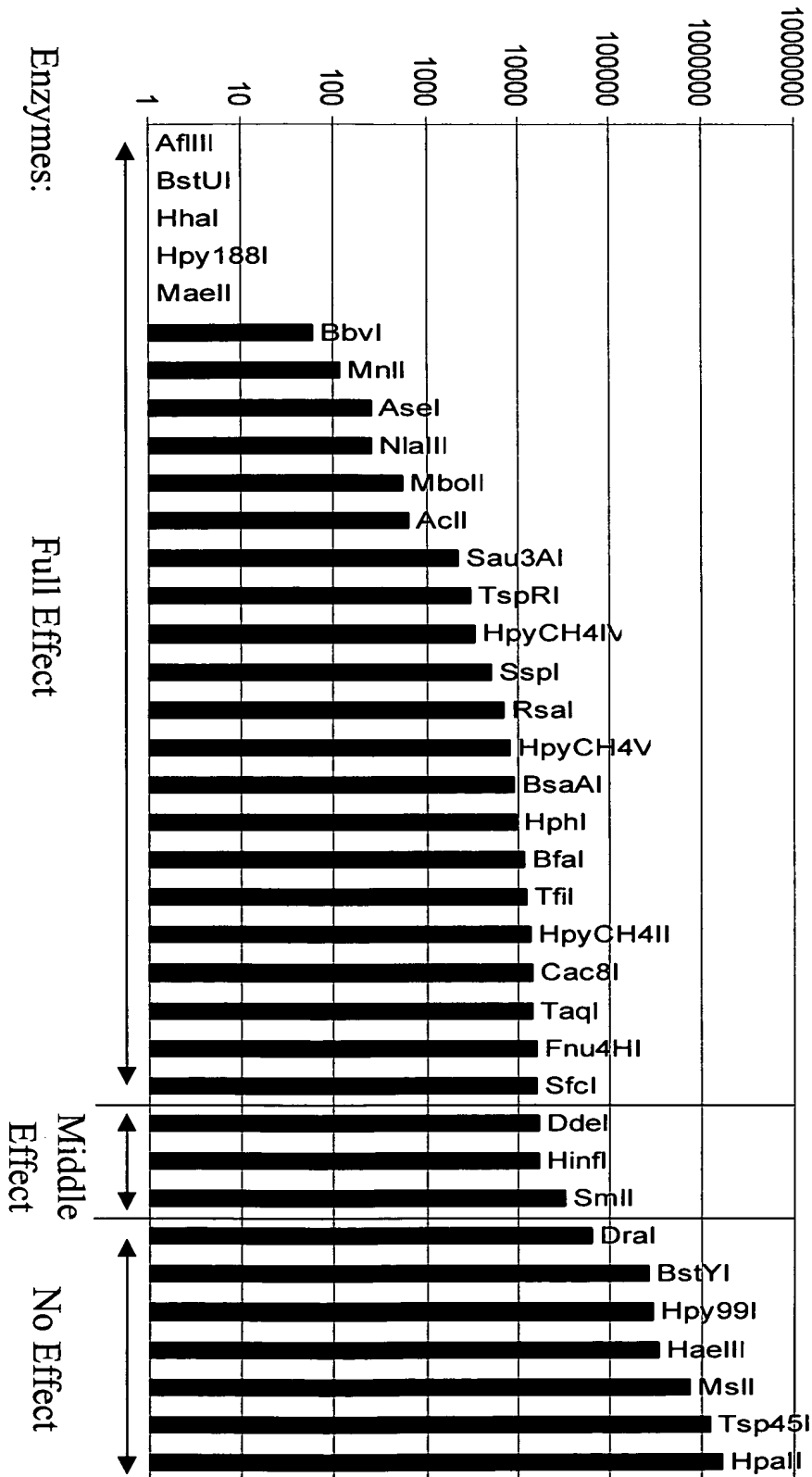
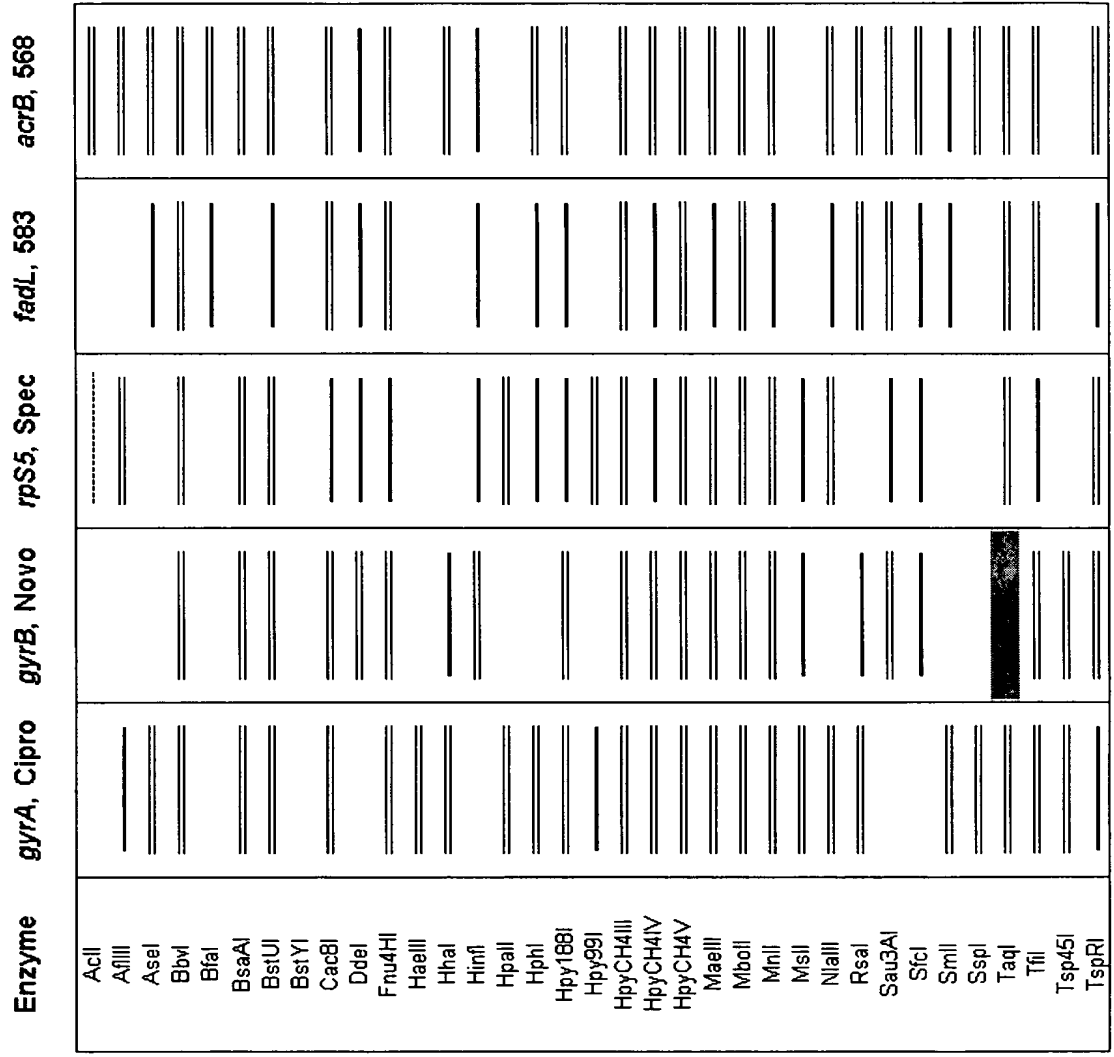


Figure 13. A-568 Resistance, *acrB*

**Figure 14. Composite Bar Code Representation of Restriction Enzyme Digest Transformation Frequency Signatures for *H. influenzae* Mutants**

*H. influenzae* Mutants



Effect	Code
No Effect	—
Moderate Effect	—
Full Effect	—
(Not Determined)	—